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6 updating said journal records with new records for each  
7 datagram processed through a VPN connection; and

8 enabling a customer to manage said journal records.

1 12. A method of allowing a VPN NAT address pool to be  
2 associated with a gateway, thereby allowing server  
3 load- balancing, comprising the steps of:

4 configuring a server NAT IP address pool for a system  
5 being configured;

6 storing specific IP addresses that are globally  
7 routable in said server NAT IP address pool;

8 configuring a VPN connection to utilize said server NAT  
9 IP address pool; and

10 managing total volume of concurrent VPN connections  
11 responsive to the number of addresses in said server  
12 NAT IP address pool.

1        13. A method of controlling the total number of VPN  
2        connections for a system based on availability of NAT  
3        addresses, comprising the steps of:  
  
4        configuring the totality of remote IP address pools  
5        with a common set of IP addresses, said addresses being  
6        configured as a range, as a list of single addresses,  
7        or any combination of multiple ranges and single  
8        addresses; and  
  
9        limiting the successful start of concurrently active  
10       VPN connections responsive to the number of said IP  
11       addresses configured across the totality of said remote  
12       address pools.

1        14.    A method of performing network address translation on  
2                selected ICMP datagrams, comprising the steps of:  
  
3                detecting selected types of ICMP type packets; and  
  
4                responsive to said selected types, performing network  
5                address translation functions on the entire datagram  
6                including ICMP data.









5 integrates network address translation (NAT) with IP  
6 Sec processing, said method steps comprising:  
  
7 configuring a NAT IP address pool;  
  
8 configuring a VPN connection to utilize said NAT IP  
9 address pool;  
  
10 obtaining a specific IP address from said NAT IP  
11 address pool, and allocating said specific IP address  
12 for said VPN connection;  
  
13 starting said VPN connection;  
.....  
14 loading to an operating system kernel the security  
15 associations and connection filters for said VPN  
16 connection;  
  
17 processing a IP datagram for said VPN connection; and  
  
18 applying VPN NAT to said IP datagram.





